

## HIGH SPEED AMPLIFIERS

CURRENT FEEDBACK OP-AMP's																										
		CLOSED	GAIN	GAIN	SLEW	RISE				DIFF	DIFF	OPEN		INITIAL		INITIAL	VOLTAGE	CURRENT		Iout	Isc	Iq	Model	Designator	PRICE	
MODEL	Volt	LOOP	BW	FLATNESS	RATE	TIME	SETTLING	TIME	DIFF	DIFF	LOOP	CMR	OFFSET	BIAS	NOISE	NOISE			Rails	Iout	Isc	Iq	Model	Designator	PRICE	
NUMBER	or	GAIN	PRODUCT	.1dB			0.10%	0.01%	ERROR	PHASE	GAIN/		Eos	CURRENT	@ 10 KHZ	@ 1 KHZ			for				Temperature		100'S	
	Curr										TZ		25C	Tmax					Specs				0	-25	-40	-55
	F'back	MIN	MHZ	MIN	MHZ	V/uSEC	NSEC	NSEC	%	°	uV/V	dB	mV	mV	uA	nV/ HZ	pA/HZ		mA	mA	mA	70	85	85	125	
SINGLES																										
AD8009	I	±1	1000		4500	0.725	10typ	NS	0.03	0.05	0.09	50	5	7	150	1.9	46	±5	150	330	16	A			\$3.52	
AD811	I	±1	140	35	2500	3.5	50	65	0.01	0.01	0.75	60	3	5	15	1.9	20	±15	100	150	18	J	A	S	\$3.35	
AD8010	I	±1	180	30	800	2	25		0.02	0.02	0.25	50	12	15	135/12	2	3	±5	175	240	17	A			\$3.24	
AD811	I	±1	80	25	400	NS	25	NS	NS	NS	0.25	56	3	5	15	1.9	20	±5	100	150	16	J	A	S	\$3.35	
AD9618	I	±10	130	.4dB50MHZ	1400	2.6	15	23	0.01typ	0.02typ	0.25		2.2	25	45	1.2typ	24typ	±5	60	NS	43		A	S	\$16.00	
AD9618	I	±10	130	.4dB50MHZ	1400	2.6	15	23	0.01typ	0.02typ	0.25		1.1	25	20	1.2typ	24typ	±5	60	NS	43		B	Q	\$25.00	
AD844	I	±1	60	NS	1200	NS	100	NS	.03typ	.15typ	2.2	NS	0.3	0.5	1.5	2	12	±15	20	80	7.5	J	A	S	\$2.95	
AD844	I	±1	60	NS	1200	NS	100	NS	.03typ	.15typ	2.2	NS	0.15	0.2	1.1	2	12	±15	20	80	7.5		B		\$6.95	
AD9632	V	-1, +2	250	.1dB@130	1200	1.4	11	16	0.06	0.04	0.0002	70dB	5	8	7	4.3	2	±5	70	240	18		A		\$4.85	
AD8011	I	±1	340	20	1100	3.7typ	25typ	NS	0.02typ	0.06typ	0.9	54	5	6	15	2	5	±5	15	60	1		A		\$2.29	
AD8055	V	±1	220	25	1000	2	20 typ	NS	0.01	0.02	66dB	82	5	10	1.2	6	1	±5	55	110	6		A		\$1.52	
AD810	I	±1	55	15	1000	NS	50	125	0.05	0.07	1	56	6	7.5	5	2.9	13	±15	40	150	8		A	S	\$2.45	
AD9617	I	±1	145	.3dB50MHZ	1000	2.5	15	23	0.01typ	0.01typ	0.25		2.2	25	50	1.2typ	29typ	±5	60	NS	48		A	S	\$16.00	
AD9617	I	±1	145	.3dB50MHZ	1000	2.5	15	23	0.01typ	0.01typ	0.25		2.2	25	25	1.2typ	29typ	±5	60	NS	48		B	Q	\$25.00	
AD9631	V	±1	220	.1dB@130	1000	1.2	11	16	0.06	0.04	0.0002	70dB	10	13	7	7	2.5	±5	70	240	17		A		\$4.85	
AD8001	I	±1	575	100	960	1.4	10typ	NS	0.025	0.04	0.25	50	5.5	9	25	2	18	±5	50	85	5.5		AR		\$3.25	
AD8001	I	±1	650	85	960	1.4	10typ	NS	0.025	0.04	0.25	50	5.5	9	25	2	18	±5	50	85	5.5		AN		\$3.25	
AD8048	V	-1, +2	180	50typ	740	1.2typ	13typ	30typ	0.02typ	0.02typ	0.002	74	3	4	3.5	3.8	1	±5	50	130	6.6		A		\$2.75	
ADEL2020: Output disable, 200nsec ton or toff: 794.328																										
ADEL2020	I	±1	90 typ	25 typ	500	NS	60 typ	NS	.02 typ	.04 typ	1	50	7.5	10	15	2.9	13	±15	30	150	10		A		\$2.34	
AD8047	V	1	170	35typ	475	1.1typ	13typ	30typ	0.02typ	0.03typ	0.0008	74	3	4	3.5	5.2	1	±5	50	130	6.6		A		\$2.75	
AD846	I	±1	80typ	NS	450	10typ	80typ	110typ	0.01typ	0.025typ	0.1	NS	0.2	0.35	0.45	2	20	±15	20	25	6.5		A	S	\$6.25	
AD846	I	±1	80typ	NS	450	10typ	80typ	110typ	0.01typ	0.025typ	0.1	NS	0.075	0.125	0.25	2	20	±15	20	25	6.5		B		\$7.45	
AD8005	I	±1	270	30	375		26typ		.11typ	.4typ	0.9	54	5		1	4	1.1	±5	10		0.45		A		\$1.95	
AD840	V	±10	40	NS	350	NS	80	100typ	0.02typ	.04 typ	0.1	90	1	1.5	6.6	NS	NS	±15	50	NS	14	J/K		S	\$4.15	
AD841	V	±1	40	NS	200	NS	90	110typ	0.03typ	.02 typ	0.025	86	2	5	8	NS	NS	±15	50	NS	12	J/K		S	\$4.15	
AD842	V	±2	40	NS	300	NS	80	100typ	0.015typ	.035 typ	0.04	86	1.5	2.5	8	NS	NS	±15	100	NS	14	J/K		S	\$4.68	
AD810: Output disable, 200nsec ton or toff:																										
AD810	I	±1	40	13	350	NS	NS	NS	0.07	0.08	0.3	52	6	7.5	5	2.9	13	±5	40	150	7.5		A	S	\$2.45	
AD818	V	-1, +2	70	20	350	NS	45	80	0.02	0.09	3	82	2	3	6.6	10	1.5	±15	50	90	7.5		A		\$1.99	
AD8005	I	±1	225	30	327		28typ		.14typ	.7typ	0.7	54	5		1	4	1.1	±5	10		0.45		A		\$1.95	
AD8051	V	±1	160	20	300	NS	35 typ	NS	0.02	0.02			2		2	15	2.4	+5V	50		5		A			
AD817	V	±1	30	18	200	NS	45	70	0.1	0.1	0.002	78	2	3	6.6			±15								
AD847	V	±1	35	NS	200	NS	65	140	NS	NS	0.002	78	1	3.5	6.6	15	1.5	±15	20	32	6	J			\$2.95	
AD847	V	±1	35	NS	200	NS	65	140	NS	NS	0.002	78	1	4	5	15	1.5	±15	20	32	6		AR		\$3.25	
AD847	V	±1	35	NS	200	NS	65	140	NS	NS	0.002	80	1	4	5	15	1.5	±15	20	32	6		AQ	AS	\$4.25	
AD848	V	±5	125	NS	200	NS	65	NS	NS	NS	0.009	92	1	2.3	6.6	5	1.5	±15	20	32	6	J			\$3.10	
AD848	V	±5	125	NS	200	NS	65	NS	NS	NS					5			±15					A	S	\$4.76	
AD849	V	±25	520	NS	200	NS	65	NS	NS	NS	0.03	100	1	2.3	6.6	5	1.5	±15	20	32	6	J			\$2.95	
AD829	V	Ext	500		150		65 @ Av=19		NS	NS	0.03		1	1	7	NS	1.5	±15	20	32	6.5	J		S	\$2.95	
AD829	V	Ext	500		150		65 @ Av=19		NS	NS			0.5	0.5				±15							\$4.25	
AD8041	V	±1	140	32 typ	140	NS	50 typ	NS	0.02 typ	0.1 typ	0.03	72	7	8	3	16	0.6	±5	50	100	6.5		A		\$1.76	
AD8041	V	±1	130	30	130	NS	35 typ	55 typ	0.03 typ	0.19 typ	0.02	74	7	8	2	16	0.6	+5V	50	90	5.8		A		\$1.76	
AD825	V	±1	44	18	125	NS	180	220	2.1	1.3	0.07	71	2	5	40pA	12	0/01	±15	50	tbid	7.4		A		\$2.65	
AD8031	V	±1	54	NS	27	NS	125 typ	NS	0.17	0.11	0.006	66	6	10	1	15	2.4	+5V	10	19	0.9		A		\$1.65	
AD8031	V	±1	54	NS	27	NS	125 typ	NS	0.17	0.11	0.006	66	1.5	2.5	1.2	15	2.4	+5V	10	19	0.9		B		\$2.48	
AD8031	V	±1	54	NS	25	NS	125 typ	NS	NS	NS	0.006	58	6	10	1	15	2.4	+2.7V	20	?	0.9		A		\$1.65	
OP162	V	±1	15	NS	10	NS		900	NS	NS	.003	70	.6	.8	.6	10	.4	+5V	30	80	.65		G		1.65	
AD843	V	±1	34	NS	160	10	95	135	.025	0.025	0.015	60	2/1	4/2	.002	19	.1	±15	50	NS	13	J/K	A/B		S 4.79	
AD845	V	±1	12.8	NS	80	20	250	350	.04	.02	0.2	86	1.5/1	2.5/2	.001	25	.1	±15	20	50	12	J/K	A/B		S 3.58	
AD8031	V	±1	54	NS	25	NS	125 typ	NS	NS	NS	0.006	58	1.5	2.5	1	15	2.4	+2.7V	20	?	0.9		B		\$2.48	

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		CLOSED	GAIN	GAIN	SLEW	RISE				DIFF	DIFF	OPEN		INITIAL	INITIAL	VOLTAGE	CURRENT		Iout	Isc	Iq	Model	Designator	PRICE	
MODEL	Volt	LOOP	BW	FLATNESS	RATE	TIME	SETTLING		GAIN	PHASE	LOOP	CMR	OFFSET		BIAS	NOISE	NOISE					Temperature			
NUMBER	or	GAIN	PRODUCT	.1dB			0.10%	0.01%	ERROR	ERROR	GAIN/		Eos		CURRENT	@ 10 KHZ	@ 1 KHZ	Rails				Range			
	Curr								@ 3.58	MHZ	TZ		25C	Tmax				for				0	-25	-40	-55
	F'back	MIN	MHZ MIN	MHZ	V/uSEC	NSEC	NSEC	NSEC	%	°	uV/V	dB	mV	mV	uA	nV/ HZ	pA/HZ	Specs	mA	mA	mA	70	85	85	125
AD8519	V	±1	15	ns	4	ns	1200		ns	ns	0.075	63	1.1	1.3	0.8	7@1KHz	0.4	5	25	70	0.8		A		
DUALS																									
AD815 DIFF IN/OUT																									
AD826	V	±1	30	10MHZ	200	NS	45	70	0.15	0.15	0.002	80	2	3	6.6	15	1.5	±15	50	90	15		A	\$2.47	
AD812	I	±1	30	10	60	NS	NS	NS	.15typ	.15typ	NS	NS	3	4.5	10	3.5	1.5	+5	15	NS	7		A	\$2.92	
AD812	I	±1	75	25	1400	NS	40	NS	0.06	0.06	0.5	56	5	12	20	3.5	1.5	±15	40	100	11		A	\$2.92	
AD827	V	±1	35	NS	200	NS	65	NS	NS	NS	0.002	78	2	3.5	7	15	1.5	±15	20	32	6	J		\$5.31	
AD827	V	±1	35	NS	200	NS	65	NS	NS	NS	0.002	78	2	3	7	15	1.5	±15	20	32	6		A	\$7.65	
AD812	I	±1	50	20	275	NS	50	NS	0.1	0.15	0.375	54	5	12	20	3.5	1.5	±5	30	100	8		A	\$2.92	
AD8056	V	±1	220	25	1000	2	20 typ	NS	0.01	0.02	66dB	82	5	10	1.2	6	1	±5	55	110	12		A	\$1.88	
AD8052	V	±1	160	20	300	NS	35 typ	NS	0.02	0.02		2		2	15	2.4	+5V	50		5		A			
AD8032	V	±1	54	NS	27	NS	125 typ	NS	0.17	0.11	0.006	66	6	10	1	15	2.4	+5V	10	19	0.9		A	\$2.39	
AD8032	V	±1	54	NS	27	NS	125 typ	NS	0.17	0.11	0.006	66	1.5	2.5	1.2	15	2.4	+5V	10	19	0.9		B	\$2.39	
AD8032	V	±1	54	NS	25	NS	125 typ	NS	NS	NS	0.006	58	6	10	1	15	2.4	+2.7V	20	?	0.9		A	\$3.59	
AD8032	V	±1	54	NS	25	NS	125 typ	NS	NS	NS	0.006	58	1.5	2.5	1	15	2.4	+2.7V	20	?	0.9		B	\$3.59	
AD828	V	-1, +2	60	30MHZ	300	NS	45	80	0.03	0.1	0.002	82	2	3	6.6	10	1.5	±15	50	90	15		A	\$2.47	
AD8072	I	-1/+2	80	8	500typ	NS	20	NS	0.1	0.2	0.3	56	6	8	12	4	5	±5	30	80	10		A	\$1.50	
AD8072	I	-1/+2	80	8	350	NS	20	NS	0.1	0.1	0.25	54	4	6	10	4	5	+5	20	60	9		A	\$1.50	
AD815	I	±1	100	40	800	NS	70		0.45	0.05	1	57	8	15	90	2	19	±15	500	1000	30		A	\$6.50	
AD8042	V	±1	125	14	130	NS	26 typ	39typ	0.06	0.12	0.03	68	9	12	3.2	15	0.7	+5V	50	90	12		A	\$2.65	
AD8012	I	±1	350	34	1300	2.5typ	25typ	NS	0.02typ	0.3typ	0.3	60	4	5	3	3	17	±5	100	500	1.8		A	\$3.24	
AD8012	I	±1	250	34	1300	2.5typ	25typ	NS	0.02typ	0.3typ	0.3	60	4	5	3	3	17	+5	50	500	1.8		A	\$3.24	
AD8002 IMD @ 10MHZ=33dBm, 1dB Gain Compression=14dBm, SFDR @ 5MHZ=-66dB																									
AD8002	I	±1	600typ	60typ	1200typ	2.4typ	12typ	NS	.01typ	.02typ	0.25	49	6	9	25	2	2	±5	70	110	11.5		A	\$3.50	
AD825	V																								
OP262	V	±1	15	NS	10	NS		900	NS	NS	.003	70	.6	.8	.6	10	.4	+5V	30	80	1.3		G	2.38	
TRIPLES																									
AD8073	I	-1/+2	80	8	500typ	NS	20	NS	0.1	0.2	0.3	56	6	8	12	4	5	±5	30	80	15		A	\$1.75	
AD8073	I	-1/+2	80	8	350	NS	20	NS	0.1	0.1	0.25	54	4	6	10	4	5	+5	20	60	13.5		A	\$1.75	
AD8023 with Disable/amp, ton=50nsec, toff=30 nsec, can drive 1000pf load																									
AD8023	I	±3	125	7	1200	NS	30typ	NS	0.02	0.06	0.067	56	5	2uV/C	45, -25	2	14	±7	50	300	10		A		
AD8023	I																						A	\$4.69	
AD8013 with Disable/amp, ton=50nsec, toff=30 nsec, can drive 200pf load																									
AD8013	I	±2	110	60	600	NS	18	NS	0.05	0.12	0.8	52	5	6	+7, -4	3.5	12	±5	25	95	12		A	\$4.41	
AD8013	I	±2	100	50	400typ	NS	NS	NS	.05typ	.06typ	0.65	52	5	6	+7, -4	3.5	12	+5	NS	NS	10.5		A	\$4.41	
AD813 with Disable/amp, ton=170nsec, toff=100 nsec																									
AD813	I	-1, +2	75	25	150	NS	40	NS	0.09	0.12	0.5	57	5	12	30	3.5	1.5	±15	30	100	16.5		A	\$4.40	
AD813	I	-1, +2	45	15	NS	NS	50	NS	0.24	0.26	0.3	54	5	12	30	3.5	1.5	±5	25	100	12		A	\$4.40	
AD813	I	-1, +2	25	8	50typ	NS	NS	NS	.2typ	.2typ	NS	NS	3	10	30	3.5	1.5	+5	15	NS	7		A	\$4.40	
QUADS																									
AD8004	I	±1	250typ	30typ	3000typ	1.8typ	21	NS	.04typ	.1typ	0.17	52	3.5	5	110	1.5	38	±5	50	100	17		AN	\$11.75	
AD8004	I	±1	200	30typ	1100typ	2.3	24	NS	.04typ	.1typ	0.14	52	2.5	3	80	1.5	38	+5	50	95	14			\$7.00	
AD816 2 Drivers, 2 Receivers																									
AD816																									
Drivers	I	±1	100	10	1400	NS	70	NS	0.05	0.45	0.7	56	15	25	60	1.8	19	±15	500	1000	56		A	\$8.53	
AD816																									
Drivers	I	±1	90	NS	NS	NS	NS	NS	NS	NS	0.7	56	12	NS	60	1.8	19	±5	200	NS	NS		A	\$8.53	
AD816																									
Receivers	V	±1	100	30	180	NS	45	NS	0.08	0.1	2	82	15	15	7	4	2	±15	65	105	NA		A	\$8.53	
AD816																									
Receivers	V	±1	80	40	NS	NS	NS	NS	0.1	0.1	NS	NS	15	15	7	4	2	±5	NS	NS	NS		A	\$8.53	

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CURRENT FEEDBACK OP-AMP's																										
		CLOSED	GAIN	GAIN	SLEW	RISE				DIFF	DIFF	OPEN		INITIAL	INITIAL	VOLTAGE	CURRENT		Iout	Isc	Iq	Model Designator				PRICE
MODEL	Volt	LOOP	BW	FLATNESS	RATE	TIME	SETTLING TIME		GAIN	PHASE	LOOP	CMR	OFFSET	BIAS	NOISE	NOISE	NOISE	Rails				Temperature				100'S
NUMBER	or	GAIN	PRODUCT	.1dB			0.10%	0.01%	ERROR	ERROR	GAIN/		Eos	CURRENT	@ 10 KHZ	@ 1 KHZ		for				Range				
	Curr	MIN	MHZ MIN	MHZ	V/uSEC	NSEC	NSEC	NSEC	@ 3.58 MHZ	°	uV/V	dB	25C	Tmax				Specs				0	-25	-40	-55	
	F'back	MIN	MHZ MIN	MHZ	V/uSEC	NSEC	NSEC	NSEC	%		Imohm		mV	mV	uA	nV/ HZ	pA/HZ		mA	mA	mA	70	85	85	125	
AD8044	V	±1	80	12 typ	140	NS	30 typ	45 typ	.04typ	.22typ	0.012	80	6	8	4.5	16	0.85	+5V	30	45	13.1			A		\$4.65
OP462	V	±1	15	NS	10	NS		900	NS	NS	.003	70	.6	.8	.6	10	.4	+5V	30	80	2.6			G		3.87
OP-467	V	±1	22	NS	90	NS	NS	280	NS	NS	0.014	76	0.5	1	0.6	7	0.8	±15	20	NSP	10			G	A	\$6.50
HIGH CURRENT DRIVE:ADSL/HDSL Line Drivers/Receivers												3162														
AD811	I	±1	140	35	2500	3.5	50	65	0.01	0.01	0.75	60	3	5	15	1.9	20	±15	100	150	18	J		A	S	\$3.35
AD815	I	±1	100	40	800	NS	70		0.45	0.05	1	57	8	15	90	2	19	±15	500	1000	30			A		\$6.50
AD842	V	±2	40	NS	300	NS	80	100typ	0.015typ	.035 typ	0.04	86	1.5	2.5	8	NS	NS	±15	100	NS	14	J/K			S	\$4.68
AD8010	I	±1		30	2000	2.5	20		0.05	0.05	0.9	54	5	9		2	3	±5	160		18			A		
AD816 2 Drivers, 2 Receivers																										
AD816 Drivers	I	±1	100	10	1400	NS	70	NS	0.05	0.45	0.7	56	15	25	60	1.8	19	±15	500	1000	56			A		\$8.53
AD816 Drivers	I	±1	90	NS	NS	NS	NS	NS	NS	NS	0.7	56	12	NS	60	1.8	19	±5	200	NS	NS			A		\$8.53
AD816 Receivers	V	±1	100	30	180	NS	45	NS	0.08	0.1	2	82	15	15	7	4	2	±15	65	105	NA			A		\$8.53